



US sequence listing.ST25.txt
SEQUENCE LISTING

<110> Hone, David

<120> DNA Vaccines that Express Mutant ADP-Ribosyltransferase Toxins
which Display Reduced, or are Devoid of, ADP-Ribosyltransferase
Activity

<130> 08560002aa

<140> 10/632,095

<141> 2003-08-01

<160> 10

<170> PatentIn version 3.2

<210> 1

<211> 39

<212> DNA

<213> Artificial

<220>

<223> synthetic oligonucleotide primer

<400> 1

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39

<210> 2

<211> 45

<212> DNA

<213> Artificial

<220>

<223> synthetic oligonucleotide primer

<400> 2

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45

<210> 3

<211> 71

<212> DNA

<213> Artificial

<220>

<223> synthetic oligonucleotide primer

<400> 3

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60

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71

<210> 4

<211> 42

<212> DNA

<213> Artificial

<220>

<223> synthetic oligonucleotide primer

US sequence listing.ST25.txt

<400> 4
gccaaataca tggccatatt atcatcgtgt ttttcaaagg aa 42

<210> 5
<211> 582
<212> DNA
<213> Artificial

<220>
<223> ctxA-S63K nucleotide sequence modified at nucleotides 187-189
(TCA to AAA)

<400> 5
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ggctttatgc caagaggaca gaggtagtac ttgaccgag gtactcaaat gaatatcaac 120
ctttatgatac atgcaagagg aactcagacg ggatttggtta ggcacgatga tggatatgtt 180
tccacaaaaa ttagtttgag aagtgtccac ttagtggttc aaactatatt gtctggtcat 240
tctacttatt atatatatgt tatagccact gcaccaaca tgtttaacgt taatgatgta 300
ttaggggcat acagtcctca tccagatgaa caagaagttt ctgctttagg tgggattcca 360
tactcccaaa tatatggatg gtatcgagtt ctttttgggg tgcttgatga acaattacat 420
cgtaataggg gctacagaga tagatattac agtaacttag atattgctcc agcagcagat 480
ggttatggat tggcaggttt ccctccggag catagagctt ggagggaaga gccgtggatt 540
catcatgcac cgccgggttg tgggaatgct ccaagatcat cg 582

<210> 6
<211> 31
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide primer

<400> 6
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<210> 7
<211> 30
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide primer

<400> 7
caaactaatt ttggtggaaa catatccatc 30

<210> 8
<211> 582
<212> DNA
<213> Artificial

US sequence listing.ST25.txt

<220>
<223> ctxA1-E29H nucleotide sequence modified at nucleotides 85-87 (GAG to CAC)

<400> 8
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ggctttatgc caagaggaca gagtcactac ttgaccgag gtactcaaat gaatatcaac 120
ctttatgatac atgcaagagg aactcagacg ggatttggtta ggcacgatga tggatatgtt 180
tccacctcaa ttagtttgag aagtgtccac ttagtgggtc aaactatatt gtctgggtcat 240
tctacttatt atatatatgt tatagccact gcaccaaca tgtttaacgt taatgatgta 300
ttaggggcat acagtcctca tccagatgaa caagaagttt ctgctttagg tgggattcca 360
tactcccaa tatatggatg gtatcgagtt ctttttgggg tgcttgatga acaattacat 420
cgtaataggg gctacagaga tagatattac agtaacttag atattgctcc agcagcagat 480
ggttatggat tggcaggttt ccctccggag catagagctt ggaggggaaga gccgtggatt 540
catcatgcac cgccgggttg tgggaatgct ccaagatcat cg 582

<210> 9
<211> 30
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide primer

<400> 9
caagaggaca gagtcactac ttgaccgag 30

<210> 10
<211> 30
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide primer

<400> 10
gttctcctgt ctgagtgatg aaactggcac 30